P. FNT COOPERATION TREAT

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

MORRISON, Christopher, Andrew

From the INTERNATIONAL BUREAU

10:

Commissioner
US Department of Commerce
United States Patent and Trademark
Office, PCT
2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year)
13 November 2000 (13.11.00)

International application No.
PCT/US00/09852

International filing date (day/month/year)
13 April 2000 (13.04.00)

Applicant

ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

Applicant's or agent's file reference
CM2093/3M

Priority date (day/month/year)
13 April 1999 (13.04.99)

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	06 October 2000 (06.10.00)
	in a notice effecting later election filed with the International Bureau on:
	· · · · · · · · · · · · · · · · · · ·
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
•	

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

S. Mafla

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

TENT COOPERATION TRIED Y

PCT

REC'D 0 5 APR 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	nt's file reference	<u> </u>	See Notification of Transmittal of International
CM2093	/3M		FOR FURTHER ACTION	Preliminary Examination Report (Form PCT/IPEA/416)
Internation	al appli	cation No.	International filing date (day/mon	hth/year) Priority date (day/month/year)
PCT/US	00/09	852	13/04/2000	13/04/1999
Internation C11D17		nt Classification (IPC) or n	ational classification and IPC	
Applicant THE PR	ОСТЕ	ER & GAMBLE COMP	PANY et al.	
			nination report has been prepare according to Article 36.	ed by this International Preliminary Examining Authority
2. This	REPO	RT consists of a total o	f 6 sheets, including this cover	sheet.
t	een a	mended and are the ba		the description, claims and/or drawings which have containing rectifications made before this Authority tions under the PCT).
Thes	e ann	exes consist of a total c	f sheets.	
3. This	report	contains indications rel	ating to the following items:	
1	\boxtimes	Basis of the report		
H		Priority		•
Ш		Non-establishment of	opinion with regard to novelty, in	nventive step and industrial applicability
IV		Lack of unity of invent	ion	
. V	☒		under Article 35(2) with regard to ions suporting such statement	o novelty, inventive step or industrial applicability;
VI		Certain documents ci	ted	
VII		Certain defects in the	international application	
VIII	⊠	Certain observations	on the international application	
Date of sul	omissio	on of the demand	Date o	of completion of this report
06/10/20	000		03.04.	2001
	exami Euro D-80	g address of the internation ning authority: opean Patent Office 0298 Munich +49 89 2399 - 0 Tx: 5236	Ruck	rized officer
	Fax:	+49 89 2399 - 4465	Telent	none No. +49 89 2399 8493

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US00/09852

I.	Bas	sis of the report	
1.	the and	receiving Office in re	ents of the international application (Replacement sheets which have been furnished to sponse to an invitation under Article 14 are referred to in this report as "originally filed" his report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-6	3 a	s originally filed
	Cla	ims, No.:	
	1-18	3 . a	s originally filed
2.		•	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of pub	lication of the international application (under Rule 48.3(b)).
		the language of a tra 55.2 and/or 55.3).	anslation furnished for the purposes of international preliminary examination (under Rule
3.			otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the inte	rnational application in written form.
		filed together with th	e international application in computer readable form.
		furnished subsequer	ntly to this Authority in written form.
		furnished subsequer	ntly to this Authority in computer readable form.
			he subsequently furnished written sequence listing does not go beyond the disclosure in
		The statement that the listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.
4.	The	amendments have r	esulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

5.

This report has been established as if (some of) the amendments had not been made, since they have been

considered to go beyond the disclosure as filed (Rule 70.2(c)):



International application No. PCT/US00/09852

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes:

Claims

No:

Claims 1-18

Inventive step (IS)

Yes:

Claims

Claims

No:

Claims 1-18

Industrial applicability (IA)

Yes: No: Claims 1-18

2. Citations and explanations see separate sheet

VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made: see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

1. Reference is made to the following documents:

D1: WO 96 38527 A (KAO CORP) 5 December 1996

D2: DE 34 38 654 A (LION CORP) 9 May 1985

D3: US-A-4 164 478 (IKEUCHI TAKASHI ET AL) 14 August 1979

D4: DATABASE WPI Section Ch, Week 198743 Derwent Publications Ltd., London, GB; Class D25, AN 1987-302957 XP002143418, 18 September 1987

D5: DATABASE WPI Section Ch, Week 199125 Derwent Publications Ltd.,

London, GB; Class A97, AN 1991-182438 XP002143439), 13 May 1991

D6: WO 92 13030 A (GENENCOR INT) 6 August 1992

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

2. Novelty (Article 33(2) PCT)

- 2.1 D1 discloses (cf. page 6, line 25 to page 8, line 11; examples, claims 1 and 6) an enzyme-containing granulated substance comprising an enzyme-containing particulate substance and a coating layer which is formed on the particulate substance and comprises (a) water insoluble or hardly water soluble inorganic particles having an average particle diameter of 1 to 100 µm (such as calcium or magnesium carbonate, clay, zeolite and titanium oxide), (b) water insoluble or hardly water soluble inorganic particles having an average particle diameter of 0.01 to 0.8 µm (titanium oxide) and (c) a binder (a nonionic surfactant such as polyethylene glycol).
- 2.2 Document D2 (cf. claims 1 and 4) relates to a process for manufacturing detergent granulate compositions comprising a solid particulated detergent composition which is dusted with a fine water-soluble powder (such as titanium dioxide).

- 2.3 Also document D3 (cf. example 2; claims 1 and 9), document D4 (cf. abstract), document D5 (cf. abstract) and document D6 (cf. example 2; claim 1) describe the subject-matter of present claim 1.
- 2.4 Moreover, all the documents D1 to D6 would therefore appear to detract from novelty of independent claims 1, 8, 11 (see paragraph 6.), 12, 13 and 15 to 18 according to the requirements of Article 33(2) PCT.
- 2.5 Dependent claims 3 to 7, 9 and 10 do not contain any features which have not already been disclosed or suggested in documents D1 to D6, to meet the requirements of the PCT in respect of novelty. Because dependent claims 2 and 14 comprise a lack of clarity (see paragraph 5.), the subject-matter of those said claims are not novel while all the usual features are already disclosed in the prior art (see Guidelines IV-7.5 PCT).

3. Inventive step (Article 33(3) PCT)

- 3.1 Given the situation of novelty set out in paragraph 2. above it makes little sense to consider the issue of inventive step at this stage. The closest prior art would nevertheless appear to be document D1, which like the present application is concerned with a granulated substance comprising a visible light reflecting component (water-insoluble or hardly water-soluble inorganic particle having an average particle diameter of 0.01 to 0.8 µm such as titanium oxide).
- 3.2 Moreover, it appears to be obvious to have a particle comprising a particulate component and a visible light reflecting component, which has a higher visible light reflection intensity than the particulate component alone. This statement can therefore not be considered as involving an inventive step (Article 33(3) PCT).

Re Item VIII

Certain observations on the international application

- 4. Claims 1, 13 and 15 do not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. The claims attempt to define the subject-matter in terms of the result to be achieved which merely amounts to a statement of the underlying problem. The technical features necessary for achieving this result should be added.
- 5. The "lustre index" and its standard (special particle size of sodium citrate dihydrate salt) is an obscure and unusual parameter and can not be considered as a normal feature to define the detergent particle with regard to the prior art (see Guidelines IV- 4.7a PCT).
- 6. Because claim 8 discloses a "process for making" the product claim 1 to 7, product claim 11, which relates to a particle "obtainable by a process of claims 8 to 10", appears to be superfluous and should be deleted.

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference CM2093/3M		of Transmittal of International Search Report 220) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 00/09852	13/04/2000	13/04/1999
Applicant THE PROCTER & GAMBLE COMP.	ANY et al.	
according to Article 18. A copy is being tra		
Basis of the report With regard to the language, the	international search was carried out on the ba	sis of the international application in the
	less otherwise indicated under this item.	sis of the international application in the
the international search w Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this
was carried out on the basis of the contained in the internation filed together with the internation furnished subsequently to furnished subsequently to	e sequence listing: onal application in written form. ornational application in computer readable for o this Authority in written form. o this Authority in computer readble form.	
international application a	bsequently furnished written sequence listing o as filed has been furnished.	
the statement that the infe furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been
Certain claims were four Unity of invention is lace.	ind unsearchable (See Box I). klng (see Box II).	
4. With regard to the title ,		
the text is approved as su the text has been establis	ubmitted by the applicant. Shed by this Authority to read as follows:	
5. With regard to the abstract, the text is approved as su	ubmitted by the applicant.	
	shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	
6. The figure of the drawings to be pub as suggested by the appl		None of the figures.
because the applicant fai		
	r characterizes the invention.	

Box III TEXT OF THE ABSTRACT (Continuation of item 5 of the first sheet)

Visible light reflecting particles comprise one or more detergent ingredients and a light reflecting component, which results in the particle having a specular visible light reflection which is greater in intensity than the specular visible light reflection of the ingredients per se. Preferably, the reflection is greater than the reflection of sodium citrate dihydrate, as defined herein.

The reflecting particle preferably comprises the light reflecting component evenly applied on its surface.

The particles are particularly suitable for incorporation into laundry or dish washing compositions, fabric conditioning compositions or hard-surface cleaning compositions.

International Application No POSS 00/09852

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C11D17/00 C11D3/40

C11D3/12

C11D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) $IPC \ 7 \ C11D$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the	relevant passages	Relevant to claim No.
X	WO 96 38527 A (KAO CORP) 5 December 1996 (1996-12-05)		1,2,5,6, 9-13, 16-18
A	abstract; tables 1,2		14
X	US 4 164 478 A (IKEUCHI TAKASHI 14 August 1979 (1979-08-14)	ET AL)	1,2,5,6, 12,13, 16-18
Α .	abstract; examples 28-30		8,9,11, 14
		-/	
		•	
χ Furti	her documents are listed in the continuation of box C.	χ Patent family members	are listed in annex.
' Special ca	stegories of cited documents :	"T" later document published afte	r the international filing date
consid	ent defining the general state of the art which is not lered to be of particular relevance		nflict with the application but iple or theory underlying the
filing d		"X" document of particular releval cannot be considered novel	or cannot be considered to
which citation	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified)	"Y" document of particular relevan	en the document is taken alone nce; the claimed invention olve an inventive step when the
(C) =	and and and are the company of the state of		

Name and mailing address of the ISA

25 July 2000

other means

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"O" document referring to an oral disclosure, use, exhibition or

"P" document published prior to the international filing date but later than the priority date claimed

> European Patent Office, P.B. 5818 Patentlaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,

Date of the actual completion of the international search

Fax: (+31-70) 340-3016

cannot be considered to involve an inventive step when the document is combined with one or more other such docu-

ments, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

03/08/2000

Saunders, T

Authorized officer

Date of mailing of the international search report

International	Application No
P	00/09852

MENTS CONSIDERED TO BE RELEVANT locument, with indication, where appropriate, of the relevant passages BASE WPI ion Ch, Week 198743 ent Publications Ltd., London, GB; s D25, AN 1987-302957 2143418 62 212498 A (LION CORP), eptember 1987 (1987-09-18) ract BASE WPI ion Ch, Week 199125 ent Publications Ltd., London, GB; s A97, AN 1991-182438 2143439 03 111497 A (KAO CORP), ay 1991 (1991-05-13) ract 2 13030 A (GENENCOR INT) gust 1992 (1992-08-06) mple 2	Relevant to claim No. 1-3,5,6, 12,13, 16-18 8,9,11, 14 1,2,5,6, 12,13, 16-18 9,11,14 1,2,5,6, 12,13, 16-18 9,11,14
ion Ch, Week 198743 ent Publications Ltd., London, GB; s D25, AN 1987-302957 2143418 62 212498 A (LION CORP), eptember 1987 (1987-09-18) ract BASE WPI ion Ch, Week 199125 ent Publications Ltd., London, GB; s A97, AN 1991-182438 2143439 03 111497 A (KAO CORP), ay 1991 (1991-05-13) ract 2 13030 A (GENENCOR INT) gust 1992 (1992-08-06)	12,13, 16-18 8,9,11, 14 1,2,5,6, 12,13, 16-18 9,11,14 1,2,5,6, 12,13, 16-18
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خند که خند	8,9,11, 14
4 38 654 A (LION CORP) y 1985 (1985-05-09)	1,2,5,6, 12,13, 16-18
ims 1,4	8,9,11, 14
1 09927 A (HENKEL KGAA) uly 1991 (1991-07-11)	1-3,6,8, 11-14, 16-18
	1 2 6
ugust 1989 (1989-08-29)	1-3,6, 9-14,16, 18
 737 739 A (PROCTER & GAMBLE) ctober 1996 (1996-10-16) ract; example 1	1,6-13, 16-18
318 729 A (COLGATE PALMOLIVE CO) ne 1989 (1989-06-07) mple 2	15
789 011 A (TANAKA Y) anuary 1974 (1974-01-29) im 1 	15
	uly 1991 (1991-07-11) mple 2 861 510 A (WILMS ELMAN ET AL) ugust 1989 (1989-08-29) mple 1 737 739 A (PROCTER & GAMBLE) ctober 1996 (1996-10-16) ract; example 1 318 729 A (COLGATE PALMOLIVE CO) me 1989 (1989-06-07) mple 2 789 011 A (TANAKA Y) anuary 1974 (1974-01-29)

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INTERNATIONAL SEARCH REPORT Information on patent family members

International Application No

S 00/09852 Patent document Patent family Publication Publication cited in search report member(s) date date WO 9638527 Α 05-12-1996 DE 69605009 D 09-12-1999 DE 69605009 T 25-05-2000 EP 0773984 A 21-05-1997 JP 2909888 B 23-06-1999 JP 9048996 A 18-02-1997 US 5851975 A 22-12-1998 US 4164478 14-08-1979 JP 1229923 C 19-09-1984 Α JP 53114807 A 06-10-1978 JP 59001439 B 12-01-1984 DE 2811543 A 21-09-1978 JP 62212498 18-09-1987 NONE JP 3111497 JP 27-10-1998 Α 13-05-1991 2815925 B WO 9213030 US 5254283 A Α 06-08-1992 19-10-1993 DE 69228764 D 29-04-1999 DE 69228764 T 02-09-1999 0636167 A EP 01-02-1995 JP 7506124 T 06-07-1995 DE 3438654 09-05-1985 JP 1937768 C 09-06-1995 JP 5010400 B 09-02-1993 JP 60096698 A 30-05-1985 11-07-1991 WO 9109927 3943019 A 04-07-1991 DE US 4861510 Α 29-08-1989 DE 3702111 A 04-08-1988 29988 A 25-07-1988 DK EP 03-08-1988 0276705 A FΙ 880274 A 25-07-1988 JP 63195112 A 12-08-1988 25-07-1988 NO 880250 A 2299956 A EP 0737739 Α 16-10-1996 GB 23-10-1996 EP 0318729 Α 07-06-1989 US 4867899 A 19-09-1989 ΑU 2563388 A 01-06-1989 25-08-1992 CA 1306658 A 25-07-1990 ZA 8808536 A US 3789011 29-01-1974 12-08-1974 Α JP 49030246 B



PCT





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:
C11D 17/00, 3/40, 3/12, 11/00
A1
(43) International Publication Number: WO 00/61718
(43) International Publication Date: 19 October 2000 (19.10.00)

GB

(21) International Application Number: PCT/US00/09852

(22) International Filing Date: 13 April 2000 (13.04.00)

(30) Priority Data: 9908354.5 13 April 1999 (13.04.99)

(71) Applicant (for all designated States except US): THE PROCTER & GAMBLE COMPANY [US/US]; One Procter & Gamble Plaza, Cincinnati, OH 45202 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MORRISON, Christopher, Andrew [GB/GB]; 29 Sunlea Avenue, Cullercoats, Tyne & Wear NE30 3DS (GB).

(74) Agents: REED, T., David et al.; The Procter & Gamble Company, 5299 Spring Grove Avenue, Cincinnati, OH 45217-1087 (US).

(81) Designated States: AE, AL, AM, AT, AT (Utility model), AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, CZ (Utility model), DE, DE (Utility model), DK, DK (Utility model), DM, EE, EE (Utility model), ES, FI, FI (Utility model), GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK (Utility model), SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: LIGHT REFLECTING PARTICLES

(57) Abstract

Visible light reflecting particles comprise one or more detergent ingredients and a light reflecting component, which results in the particle having a specular visible light reflection which is greater in intensity than the specular visible light reflection of the ingredients per se. Preferably, the reflection is greater than the reflection of sodium citrate dihydrate, as defined herein. The reflecting particle preferably comprises the light reflecting component evenly applied on its surface. The particules are particularly suitable for incorporation into laundry or dish washing compositions, fabric conditioning compositions or hard-surface cleaning compositions.

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EE	Estonia	LR	Liberia	SG	Singapore		

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C11D17/00 C11D3/40

C11D3/12

C11D11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ll} \mbox{Minimum documentation searched (classification system followed by classification symbols)} \\ \mbox{IPC 7} & \mbox{C11D} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, PAJ

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 96 38527 A (KAO CORP) 5 December 1996 (1996-12-05)	1,2,5,6, 9-13, 16-18
Α .	abstract; tables 1,2	14
X	US 4 164 478 A (IKEUCHI TAKASHI ET AL) 14 August 1979 (1979-08-14)	1,2,5,6, 12,13, 16-18
A	abstract; examples 28-30	8,9,11, 14
	-/	
,		

Y Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
 Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed 	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 25 July 2000	Date of mailing of the international search report 03/08/2000
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni,	Authorized officer
Fax: (+31-70) 340-3018	Saunders, T

1

Int Ional Application No PCT/US 00/09852

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
K	DATABASE WPI	1-3,5,6,
	Section Ch, Week 198743	12,13,
	Derwent Publications Ltd., London, GB;	16-18
	Class D25, AN 1987-302957	
	XP002143418	
	& JP 62 212498 A (LION CORP),	
	18 September 1987 (1987-09-18)	İ
	abstract	8,9,11,
		14
		
	DATABASE WPI	1,2,5,6,
	Section Ch, Week 199125	12,13,
	Derwent Publications Ltd., London, GB;	16-18
	Class A97, AN 1991-182438	1
	XP002143439	
	& JP 03 111497 A (KAO CORP).	ŀ
	13 May 1991 (1991-05-13)	ļ
	abstract	9,11,14
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